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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/901,503	07/09/2001	Rodney Schmidt	TT4055	4904
23720 75	90 04/19/2004		EXAMINER	
WILLIAMS, MORGAN & AMERSON, P.C.			CASIANO, ANGEL L	
	10333 RICHMOND, SUITE 1100 HOUSTON, TX 77042		ART UNIT	PAPER NUMBER
110001011, 11	,,,,,		2182	
			DATE MAILED: 04/19/2004	<sub>04</sub> 8

Please find below and/or attached an Office communication concerning this application or proceeding.

		PLe				
•1 ,	Application No	Applicant(s)				
	09/901,503	SCHMIDT ET AL.				
Office Action Summary	Examiner	Art Unit				
	Angel L. Casiano	2182				
The MAILING DATE of this communication	n appears on the cover sheet w	ith the correspondence address				
Period for Reply  A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic  - If the period for reply specified above is less than thirty (30) days,  - If NO period for reply is specified above, the maximum statutory p  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. , a reply within the statutory minimum of thi period will apply and will expire SIX (6) MOI statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. THS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on 29 January 2004.					
· <u> </u>	· <del>-</del>					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the m						
closed in accordance with the practice un	der <i>Ex parte Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) 1-22 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ⊠ Claim(s) 11 and 20 is/are allowed.  6) ⊠ Claim(s) 1,8-10,12 and 21 is/are rejected.  7) ⊠ Claim(s) 2-7,13-19 and 22 is/are objected.  8) □ Claim(s) are subject to restriction and 21 is/are objected.	hdrawn from consideration. I to.					
Application Papers						
9) ☐ The specification is objected to by the Exa 10) ☑ The drawing(s) filed on 29 January 2004 is Applicant may not request that any objection to Replacement drawing sheet(s) including the content of	s/are: a)⊠ accepted or b)□ on the drawing(s) be held in abeyate orrection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of:  1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	ments have been received. ments have been received in a e priority documents have been tureau (PCT Rule 17.2(a)).	Application No  received in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
<ul> <li>2)  Notice of Draftsperson's Patent Drawing Review (PTO-94</li> <li>3)  Information Disclosure Statement(s) (PTO-1449 or PTO/8</li> </ul>		s)/Mail Date Informal Patent Application (PTO-152)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

Paper No(s)/Mail Date \_\_

6) Other: \_

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#### **DETAILED ACTION**

## Response to Amendment

- 1. The present Office Action is in response to Amendment dated 29 January 2004.
- 2. Claims 1-22 are pending in the application.

# **Drawings**

3. Objections to the Drawings have been overcome with the corrections filed in the present Amendment (see Replacement sheet for Figure 2).

# Specification

4. Objection to the Specification has been overcome with the corrections filed in the present Amendment.

# Claim Objections

5. Objection to claim 7 has been overcome with the corrections filed in the present Amendment.

## Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject

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matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 1, 8-10, 12 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koenck et al. [US 6,014,705] in view of Lipe et al. [US 5,784,615].

Regarding claim 1, Koenck et al. teaches a communication system (see col. 2, lines 17-19; col. 9, lines 45-47; col. 12, lines 24-30). The disclosure by Koenck et al. includes physical layer hardware (see Fig. 1B, "259") adapted to communicate (see "wireless", col. 10, lines 28-29) data over a communications channel (see col. 10, lines 24-25) in accordance to control codes (see "control signals", col. 8, line 51; col. 9, lines 53-54). The physical layer hardware is disclosed by the prior art as being a modem (see Fig. 1B, "259"). By definition, a modem is adapted to convert digital pulses to analog signals and vice versa (modulate-demodulate). Accordingly, the cited physical layer in the reference is adapted to demodulate an incoming analog signal and generate a digital receive signal and to modulate a digital transmit signal to generate an analog transmit signal. Koenck et al. also includes a processing unit (see "microprocessor", Abstract; Fig. 1A). The cited driver (see "program") includes instructions for implementing a protocol layer (see Figs. 1B, 1C; col. 9, line 57) based on control codes (see Abstract). However, Koenck et al. does not explicitly teach a privileged driver for interfacing with the physical layer hardware, as claimed. Nonetheless, Lipe et al. teaches a driver for interfacing with a physical layer hardware (see "modem"). Lipe et al. teaches a privileged driver (see col. 2, lines 10-32). At the time of the invention, one of ordinary skill in the art would have been motivated to combine the cited disclosures in order to obtain a system implementing protected mode Art Unit: 2182

processing unit (see Lipe et al. "microprocessor") having controlled access to operating system data structures (see Lipe et al.).

In consideration of claim 8, Koenck et al. teaches control instructions including frequency assignment (inherent, see col. 8, lines 30-35; col. 9, lines 27-31) and time slot assignment (inherent, see col. 4, lines 64-67; col. 5, lines 1-13).

As per claim 9, Koenck et al. teaches a processing unit as being a microprocessor (see Abstract).

As for claim 10, Koenck et al. teaches a system (see Abstract) as well as a processing complex adapted to execute a code. A bus is coupled to the processor complex (see Figs. 1 (A-C)). The cited prior art includes an expansion card (see Fig. 2; col. 11, lines 49-61) coupled to the bus. The expansion card includes the physical layer hardware (see "modem", col. 4, lines 10-12; col. 33, lines 3-10).

Regarding claim 12, this constitutes the method for configuring a transceiver in a communication system. As stated in previously in the present Office Action, the combination of references (Koenck et al. in view of Lipe et al.; see claim 1) teaches the system for the method in claim 12. Therefore, the combination of references also teaches the method oriented to the transceiver in the cited system. Claim 12 is rejected under the same rationale.

Regarding claim 21, Koenck et al. teaches a communication system (see col. 2, lines 17-19; col. 9, lines 45-47; col. 12, lines 24-30). The cited art teaches physical layer hardware as being a Application/Control Number: 09/901,503 Page 5

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modem (see Fig. 1B, "259"). By definition, a modem is adapted to convert digital pulses to analog signals and vice versa (modulate-demodulate). Accordingly, the cited physical layer in the reference is adapted to demodulate an incoming analog signal and generate a digital receive signal and to modulate a digital transmit signal to generate an analog transmit signal. Koenck et al. also includes a processing unit (see "microprocessor", Abstract; Fig. 1A). The cited driver (see "program") includes instructions for implementing a protocol layer (see Figs. 1B, 1C; col. 9,

## Allowable Subject Matter

- 8. Claims 2-7, 13-19 and 22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 9. Claims 11 and 20 are allowed.

line 57) based on control codes (see Abstract).

#### Response to Arguments

Applicant's arguments, see Amendment, filed 29 January 2004, with respect to the rejection(s)of claim(s) 1, 8-10, 11 and 21 under 35 U.S.C. 102(b) and 35 U.S.C. 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Lipe et al. [US 5,784,615].

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#### Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- Reiser [US 6,718,485 B1] teaches decoding instructions and examining values in machine registers. In addition, it discloses privileged instructions ("system calls").
- Feagans [US 6,360,281 B1] teaches a soft modem. In addition, the reference exposes privilege levels for code performing functions.
- Glew et al. [US 5,948,097] teaches method and apparatus for changing privilege levels in a computer system.
- Ooi et al. [US 5,347,636] teaches a register indicating he privilege level of a current instruction execution.
- Schiffleger [US 5,371,879] teaches a program executing privileged instructions while operating in user mode.
- Yamahata [US 5,247,639] teaches privilege instructions.
- Sakai [JP 01147723 A] teaches information processing having privilege instructions.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angel L. Casiano whose telephone number is 703-305-8301. The examiner can normally be reached on 9:30-6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on 703-308-3301. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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alc

14 April 2004.

JEFRICE GAFFIN

SUFERVICORY PATERIT EXAMINER